

## **COSMETIC BRUSH**

### **BACKGROUND OF THE INVENTION**

#### **1. Field of the invention**

The present utility relates to a cosmetic brush, more particularly, to a cosmetic  
5 brush that prevents contamination and abrasion of the brush by intercepting the  
exposure of the brush the outside.

#### **2. Description of the Prior Art**

The general cosmetic brush is a simple and convenient article that has make-up  
powder within its own body and supplies make-up powder by brush without taking with  
10 separate brush and make-up powder.

For example, the conventional cosmetic brush is composed a brush on one side, a  
inside can that puts into make-up powder and a pump that pours into air in order to inject  
make-up powder on a brush.

But, the conventional cosmetic brush has a problem that a brush is worn away  
15 and is contaminated easily because of exposing outside without protection tool.

In order to overcome the conventional problems, as described FIG. 1, the  
cosmetic brush (a utility model registration 20-0165482) is composed a sliding can (5)  
that covers outside of a inside can (1) in order to cover a brush (2), and a protection cap  
(6) that protects a brush (2) by sliding of a sliding can (5) when pressurizing on a part of a  
20 vertical hem.

Accordingly, a sliding can (5) and protection cap (6) prevent an abrasion and  
contamination of a brush (2) by covering a brush when a brush is not used. Also,  
troublesome of make-up powder refill is dissolved by free of separation and combination  
of combination chamber (7) that the inside cap (1) and the brush (2) is set up.

But, the conventional cosmetic brush has a complicate process that a rubbing part (5a) and a guidance protrusion (5b) are formed on a sliding can (5) in order to guide in a regular interval along circumference of the inside can (1), that a rubbing part guide (1a) which lead a rubbing part (5a) and a guidance groove (1b) which lead the guidance protrusion (5b) are formed on the inside can (1), that a difficult making process of a rubbing part (5a) is formed in order to slide the sliding can (5), that a long length of the rubbing part guide (1a), the guidance groove (1b) and the guidance protrusion (5b) are formed.

## **SUMMARY OF THE INVENTION**

An object of the present utility is to provide a cosmetic brush that has a simple sliding structure of a sliding can.

In order to accomplish the object, a cosmetic brush has distinctive feature that a inside can with a brush on one side, a powder can that is combined to the other side of the inside can, an outside can that is formed on circumference of the inside can and is combined to an one side of the powder can, a sliding can that is formed between the inside can and the outside can, a combination chamber that is combined to the other side of the outside can, a tube that provides air into the inside of powder can and is combined to one side of a combination chamber, a button that pour into air in tube and is combined to the other side of the combination chamber, and a spring that is formed between the combination chamber and the button, are formed.

Also, a distinctive feature of the cosmetic brush is an inside can which is formed a connecting sill on circumference of one side combined a brush, which is formed the first stop protrusion on one side of the connecting sill, which is formed the second stop

protrusion on circumference of the other side of the connecting sill.

And a distinctive feature of the cosmetic brush is a sliding can which has an upholding sill upheld by a connecting sill on inside circumference part, an outside can which has a fixed sill on inside circumference part in order to restrict to moving the above  
5 connecting sill.

Also other distinctive feature of the cosmetic brush is a connecting part, which a tube is inserted inside and is formed a cylinder shape, a partition plate that consists of numerous plates dividing inside space of powder can on circumference of connecting part.

Another distinctive feature of the cosmetic brush is two filters inside the above  
10 tube, and a remedy for dehumidify between two filters.

Accordingly, the present cosmetic brush has a simple making process and structure of restricting of moving a sliding can by a connecting sill of the inside can or by the fixed sill of the outside can. And when a sliding can insert or withdraw perfectly, a upholding sill of a sliding can is upheld and connected by the first stop protrusion and a  
15 connecting sill, and by the second stop protrusion and a fixed sill through the first stop protrusion and the second stop protrusion. So, an unnecessary slide of a sliding can will be prevented by the first stop protrusion and the second stop protrusion on circumference of inside can. Also, when circumference of sliding can is pulled and pushed by hand, the user perceives easily passing of the first stop protrusion and the second stop protrusion of  
20 the upholding sill. Then, because the user doesn't pulls and pushes excessively, a damage of parts is prevented

### **BRIEF DESCRIPTION OF THE DRAWINGS**

These and other features, and advantages of the present utility will become better

understood with regard to the following description, appended claims, and accompanying drawings, in which like components are referred to by like reference numerals. In the drawings:

FIG. 1 is a separation drawing of a conventional cosmetic brush;

5        FIG. 2 is a separation drawing of a cosmetic brush according to the present utility;

FIG. 3, FIG. 4 are a cross section of combination of FIG. 2.

### **DESCRIPTION OF THE PREFERRED EMBODIMENTS**

10        Hereinafter, preferred embodiment of the present utility will be described in detail with reference to the accompanying drawings.

FIG. 2 is a separation drawing of a cosmetic brush according to the present utility and FIG. 3, FIG. 4 are a cross section of combination of FIG. 2. And according to the above, the brush (12) is formed on one side of the inside can (11). According to  
15 feature of the present utility, the connecting sill (11a) is formed on circumference of the one side with the brush (12), and the first stop protrusion (11b) is formed on one side of the connecting sill (11a) and the second stop protrusion (11c) is formed on circumference of the other side.

Because the inside can (11) is combined with one side of powder can (13), the  
20 first combination protrusion part (13a) that is combined on one side of the outside can (14) is formed on the inside can (11). And the second combination protrusion part (13b) that is combined with one side of the inside can (11) is formed on the center of the first combination protrusion part (13a). Also, a female screw part (13c) that is combined with a male screw part (17a) of the combination chamber (17) is formed on the other side of the

powder can (13).

In addition to, the outside can (14) is formed on circumference of the inside can (11). The outside can (14) formed the fixed sill on circumference of inside part is upheld by the upholding sill (15a) of the sliding can (15).

5 And, the sliding can (15) that is another feature of the present utility is formed between the inside can (11) and the outside can (14). The upholding sill (15a) is formed on the part of circumference inside of one side in order to connect and uphold by the connecting sill (11a) of the inside can (11) or the fixed sill (14a) of the outside can (14).

A female screw part (13c) formed the other side of outside can (14) combines  
10 with a male screw part (17a) of the combination chamber (17). The tube (18) that provides air with the inside of powder can (13) is formed on one side of the combination chamber (17). And, the button (21) that pours air into the tube (18) is formed on the other side of the combination chamber (17). The spring (22) is formed between the combination chamber (17) and the button (21).

15 In addition to, the partition plate (23) that is formed on the powder can (13) divided the inside of the powder can equally among the three.

The partition plate (23) that is formed the shape of cylinder consists of the connecting part (24) that inserts the tube (18) inside and numerous plates (25) that is dividing inside space of the powder can (13) in all directions on circumference of  
20 connecting part.

And, the filter (19) formed inside the tube (18) removes bad matter of the air providing to the powder can (13). A remedy for dehumidify (20) is formed between filters (19).

The abrasion and contamination of the brush (12) in the present utility is

prevented by the sliding can (15) that is covered circumference of the brush (12).

Also, because of the structure of restricting a slide of the sliding can (15) by the connecting sill (11a) of the inside can (11) that is formed the shape of ring, the fixed sill (14a) of the outside can (14), and the upholding sill (15a) of the sliding can (15), the  
5 present cosmetic brush has simpler making process than the conventional brush.

And, the function of the first stop protrusion (11b) and the second stop protrusion (11c) that are formed on circumference of inside can (11) is connecting and upholding. When inserting to the outside can (14) of a sliding can (15) perfectly or withdrawing to circumference of the brush (12) perfectly, the upholding sill (15a) of the sliding can (15)  
10 is upheld and connected by the first stop protrusion (11b) and a connecting sill (11a), and by the second stop protrusion (11c) and a fixed sill (14a) through the first stop protrusion (11b) and the second stop protrusion (11c).

Accordingly, when the sliding can (15) inserts or withdraws perfectly, an unnecessary slide of the sliding can (15) will be prevented by state upheld of the  
15 upholding sill (15a).

The merits of the first stop protrusion (11b) and the second stop protrusion (11c) are as follows. When circumference of sliding can (15) is pulled and pushed by hand, the user perceives easily passing of the first stop protrusion (11b) and the second stop protrusion (11c) of the upholding sill (15a). Therefore, the user can know whether the  
20 sliding can (15) withdraw perfectly without looking at the process of sliding of the sliding can (15).

After all, because the user doesn't pulls and pushes excessively, a damage of the upholding sill (15a) of the sliding can (15), a connecting sill (11a) of the inside can (11), the fixed sill (14a) of the outside can (14) are prevented.

Another merit of the present utility is dividing the inside of the powder can (13) equally among the three by the partition plate (23). So, the space divided into three is put another colors into the powder can (13) at a regular rate.

And, the cosmetic brush of the present utility has the filter (19) in the tube (18).

5 When air of the outside passes the tube, bad matter of the air is filtered. Then, because the air of the powder can (13) inside is always clean, the contamination of the powder is prevented and powder is supplied smoothly to the brush (12).

Also, because a remedy for dehumidify (20) which is formed between filters (19) removes humidity that includes in air inserting to the powder can (13), humidness of the  
10 powder by air of the outside is prevented.

Consequently, the present utility has some advantages as follows. The present cosmetic brush has a simple making process and structure of restricting of moving a sliding can (15) by a connecting sill (11a) of inside can (11) or by a fixed sill (14a) of outside can (14). And when a sliding can (15) inserts or withdraws perfectly, a upholding  
15 sill (15a) of a sliding can (15) is upheld and connected by the first stop protrusion (11b) and a connecting sill (11a), and by the second stop protrusion (11c) and a fixed sill (14a) through the first stop protrusion (11b) and the second stop protrusion (11c). So, an unnecessary slide of a sliding can will be prevented by the first stop protrusion (11b) and the second stop protrusion (11c) on circumference of inside can (11). Also, when  
20 circumference of sliding can is pulled and pushed by hand, the user perceives easily passing of the first stop protrusion (11b) and the second stop protrusion (11c) of the upholding sill (15a). Then, because the user doesn't pulls and pushes excessively, a damage of parts is prevented